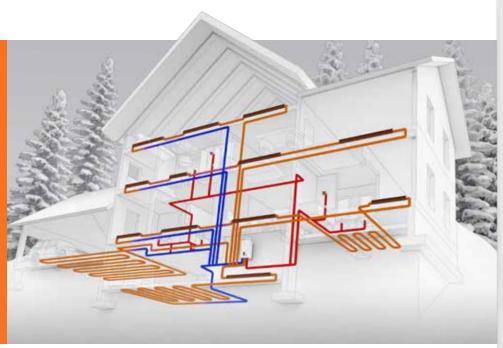


NFC-H Condensing High Capacity Fire Tube Combi-boilers



Navien

The highest selling combi-boiler brand goes even higher with whole house heating and DHW

NaviLink® Wi-Fi remote control system... available as an add-on accessory.



NEC-H NAVIEN FIRE TUBE CONDENSING HIGH CAPACITY COMBI-BOILERS

Highest heating and DHW performance ever built into one compact combi-boiler

Navien innovation, durability and proven fire tube technology has done it again. The new NFC-H has more heating and DHW capacities for today's larger progressive homes. Navien continues to reinvent smarter ways to bring high efficiency home comfort to your customers. Also, Navien continues to make installation and set-up easier for contractors.







Navien takes high efficiency fire tube combi technology to new heights

- **Highest** DHW maximum BTU/H in residential combi-boilers... 210,000 per hour
- **Highest** DHW flow rate @ 70°F rise... up to 5.4 GPM
- **Highest** residential combi DHW 15:1 TDR
- **Highest** residential combi heating TDR... up to 15:1*
- **Highest** full lineup 2" venting lengths...up to 65 feet
- *Based on NFC-250/200H.

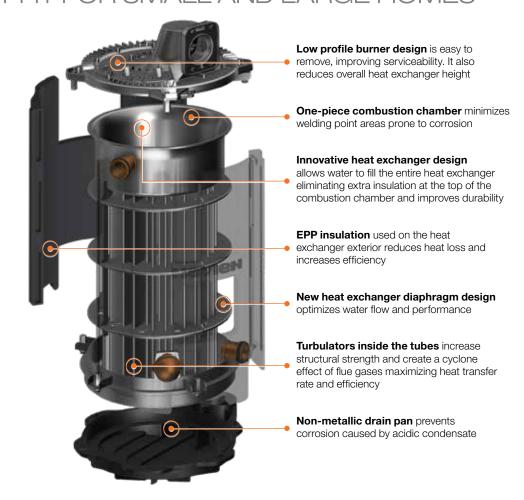
- **Highest** number of built-in zone pump or zone valve connections: 3
- Highest number of cascade capable units with NPE tankless water heaters... up to 15
- High altitude certification... up to 10,100 feet (NG or LP)



COMPARE THESE ADVANTAGES AND SEE WHY NFC-H COMBI'S ARE THE RIGHT FIT FOR SMALL AND LARGE HOMES

Patented stainless steel fire tube heat exchanger

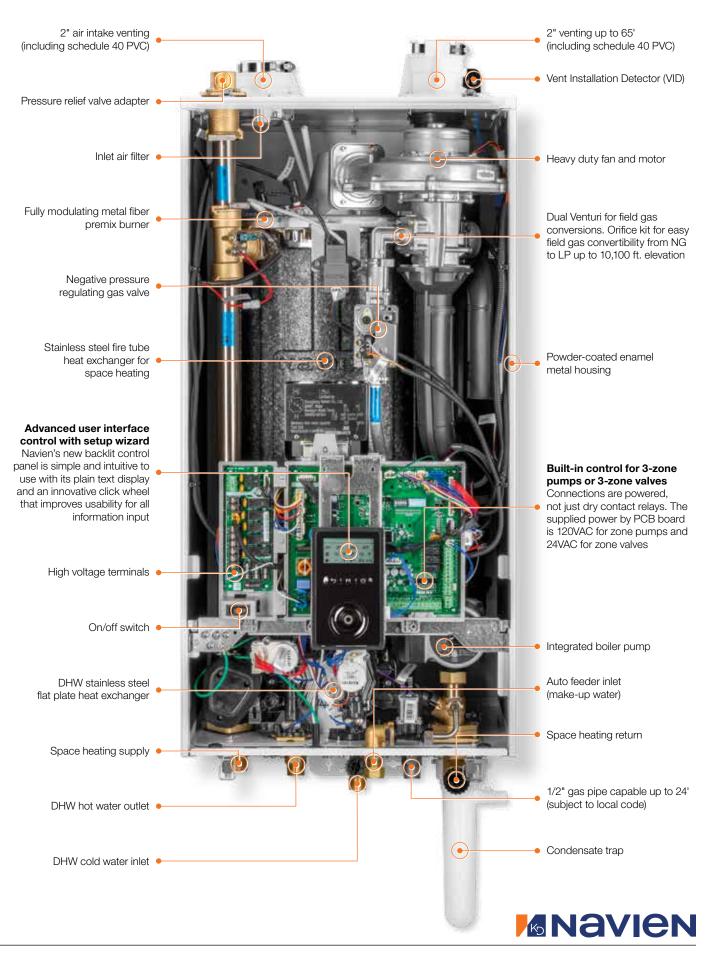
Navien's advanced patented stainless steel heat exchanger design is ASME-Certified, "H" Stamped, and reduces high stress point weld failures common on other combi-boilers. This compact, in-house designed and manufactured heat exchanger uses the latest automated laser welding technology to deliver superior product quality.



Built-in DHW module now with advanced performance

Navien's new innovative domestic hot water heat exchanger now generates even more hot water, giving customers the ability to run up to 3 showers and a dishwasher, all at the same time with up to 5.4 gallons per minute at a 70°F temperature rise.





MORE REASONS TO CHOOSE NFC-H FOR THE BEST ALL-IN-ONE HOT WATER SYSTEM





TDR up to 15:1 for heating and for DHW

The sophisticated gas flow control system provides a high turndown ratio, reducing energy waste and excessive boiler cycling and enhances temperature control for DHW.



2" PVC venting and 1/2" gas pipe capability

Save time and effort in retrofit application with 2" PVC venting up to 65' or up to 150' with 3" venting. 1/2" gas lines for up to 24' also speeds up installations.





Easy access to DHW module and valves

All components of DHW module including water feed valve, flow adjustment valve, mixing valve and cartridge-style 3-way valve are right behind circuit board for easy serviceability.



Space saving and light weight design

Navien's sleek wall-hung combi-boilers occupy 80% less space than traditional floor standing boilers and tank water heaters.



Expanded DHW capability

For increased domestic hot water flow demand, the NFC-H can be cascaded with up to 15 NPE-2 tankless water heaters.



Dual Venturi and field gas convertibility

Dual Venturi system creates better combustion control and turndown ratio. Field gas convertibility is easy with orifice conversion kits for NG high altitude (5,400–10,100 ft.) and LP (up to 10,100 ft.) included with

NFC-H Series combi-boilers.





THE LEADER IN CONDENSING TECHNOLOGY

NFC-H combi-boiler accessories



Wi-Fi control

This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on NFC-H models.

PBCM-AS-001





Wi-Fi control

This add-on accessory will enable customers with smartphones and tablets to control temperatures remotely, access usage data and receive diagnostic notifications on all Navien products.

PBCM-AS-002



HotButton®

DHW activation

At the push of a button, the HotButton® hot water system activates the DHW heat exchanger to heat water in the supply lines to provide hot water only when it's needed.

PZZZ-00046





NaviClean...

Magnetic filtration system

Removes higher levels of iron oxides, sludge and debris with powerful magnetic filter.

GXXX001727



PeakFlow[®]S

Scale prevention system

GPWC110001AC001

PeakFlow®S replacement filter GWFC110GD001



SmartZone+

Pump controller

Allows control from 4 to 6 zone pumps and expansion of built-in NFC-H zoning.

2 Zones: PFMZ-02P-001

3 Zones: PFMZ-03P-001 4 Zones: PFMZ-04P-001

6 Zones: PFMZ-06P-001



Navi^{*}irc

Recirculation valve

NaviCirc™

PFFW-SXX-001

NaviCirc™ kit 30022965A



Combi-boiler primary manifold kit

This package includes new stainless steel manifold. system-matched isolation valves and PRV-air vent adapter. 30026576B



Common vent collar kit

Required for common venting the NFC-H with NPE tankless water heaters.

Includes common vent collar damper, VID jumper cable and cascade cable. (GXXX000546)



Commercial neutralizer

Commercial condensate neutralizer for up to 16 units (1 NFC-H and up to 15 NPE's).

Commercial replacement media GXXX001329



Light commercial neutralizer

Light commercial condensate neutralizer for up to 6 units (1 NFC-H and up to 5 NPE's). GXXX001324

Lt. commercial replacement media GXXX001328



Residential neutralizer (V2)

Residential condensate neutralizer for NFC-H series units designed to neutralize the condensate of one unit. GXXX002212

Residential replacement media GXXX001323



Cascade cable

Up to 15 NPE-A/S tankless water heaters.

GXXX000546



Universal temperature sensor

Designed to sense supply, return or tank water temperature. Works with all NFC-H series combi-boilers.

GXXX001769



Ready-Link® rack base (V3) and add-on rack(s)

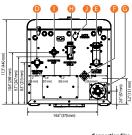
Base (V3)

GFFMKDIZUS-005

Add-on (V3)

GFFMKDIZUS-006





Supply Connections

	Connection Siz
Air Intake	Φ 2"
B Exhaust Gas Vent	Φ2"
PRV-Air Vent Connection	Φ 3/4"
Heating Supply	Ф 1"
Heating Return	Ф 1"
Gas Connection	Φ 3/4"
Condensate Outlet	Φ 1/2"
Cold Water Inlet (DHW)	Φ 3/4"
Hot Water Outlet (DHW)	Φ 3/4"
 Auto Feeder Inlet (Make-up) 	Water) Ф 1/2"

Dimensions Ratings & specifications

Navien Combination Condensing B Space Heating Ratings			g Boiler	ALER CERTIFIE		Other Space Heating Specifications		
Model	Heating In	out (BTU/H)	Heating	Net AHR	AFUE ²	Water	Water	Water
Number ¹	Min	Max	Capacity ² (BTU/H)		%	Pressure	Connection Size (Supply, Return)	Volume
NFC-250/175H	13,300	175,000	161,000	140,000	95.0	12–80 psi	1" NPT	4.5 gallons
NFC-250/200H	13,300	199,900	183,000	159,000	95.0			

 $^{^{\}rm 1}\,\text{Ratings}$ are the same for natural gas models converted to propane use.

Consult Navien before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

Navien Combination Condensing Boiler Domestic Hot Water Ratings			Other Domestic Hot Water Specifications				
Model Input Ratin		ngs (BTU/H)	Water	Minimum	Flow Rate 45°F	DHW Supply Connection Size	
Number	Min	Max	Pressure PSI	Flow Rate GPM (L/m)	(25°C) Temp Rise GPM (L/m)	Supply	Return
NFC-250/175H	13.300	210.000	15–150	0.5 (1.9)	7.9 (30.0)	3/4" NPT	3/4" NPT
NFC-250/200H	13,300	210,000	15-150	0.5 (1.9)	7.9 (30.0)	3/4 INPT	3/4 INPT

		Model			
	Item	NFC-250/175H	NFC-250/200H		
Dimension	S	17.3" W x 17.3" D x 33.5" H			
Boiler weig	ght	141 lb (64 kg)			
Boiler weig	ght with water	170 lb (77 kg)			
Installation	type	Indoor wall-hung			
Venting typ	ре	Forced draft direct vent			
Ignition		Electronic ignition			
Natural gas	s supply pressure (from source)	3.5" to 10.5" WC			
Propane g	as supply pressure (from source)	8.0" to 13.5" WC			
Natural gas	s manifold pressure	-0.03" to -0.92" WC			
Propane g	as manifold pressure	-0.02" to -0.77" WC			
Gas conne	ection size	3/4" NPT			
Power	Main supply	120V AC, 60Hz			
supply	Maximum power consumption	Less than 15 amperes			
Matariala	Casing	Cold-rolled carbon steel			
Materials	Heat exchanger	Stainless steel			
	Exhaust	2" or 3" PVC, CPVC, approv 2" or 3" special gas vent typ 2" or 3" stainless steel			
Venting	Intake	2" or 3" PVC, CPVC, polypropylene 2" or 3" special gas vent type BH (Class III, A/B/C) 2" or 3" stainless steel			
	Vent clearance	0" to combustibles			
Safety dev	ices	Flame rod, APS, ignition operation detector, wate temperature high limit switch, exhaust temperatuhigh limit sensor, water pressure sensor, burner high limit fuse, vent installation detector (VID)			

NFC-250/175H and NFC-250/200H Series				
Temp. Rise °F (°C)	Flow Rate GPM (L/m) ¹			
35 (19)	10.8 (40.9)			
40 (22)	9.5 (35.8)			
45 (25)	8.4 (31.8)			
50 (28)	7.6 (28.6)			
55 (31)	6.9 (26.0)			
60 (33)	6.3 (23.8)			
67 (37)	5.6 (21.4)			
70 (39)	5.4 (20.4)			
77 (43)	4.9 (18.6)			
80 (44)	4.7 (17.9)			
85 (47)	4.4 (16.8)			
90 (50)	4.2 (15.9)			
100 (56)	3.8 (14.3)			

¹Max GPM based on installation conditions.

Navien reserves the right to change specifications at any time without prior notice. Please refer to www.Navieninc.com to verify you have the most current information.

Heating input ranges

Model	Heating (BTU/H)	DHW (BTU/H)
NFC-250/175H	13,300–175,000	13,300-210,000
NFC-250/200H	13,300–199,900	13,300-210,000

Temperature setting ranges

	•	_	0
Item		Temperature Setting Range °F (°C)	Remarks
Space	Supply	77–185 (25–85)	Actual supply and return temperatures vary
heating	Return	68–158 (20–70)	depending on the selected outdoor reset curve.
DHW		86-140 (30-60)	

Warranty

Туре	Residential*	Commercial	
Heat exchanger	10 years	5 years	
Parts*	5 years	3 years	
Labor	1 year	1 year	

*Applies to single family residential locations. For complete details please refer to the full warranty at Navieninc.com.











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²Based on U.S. Department of Energy (DOE) test procedures.

³The net AHRI water ratings shown are based on a piping and pickup allowance of 1.15.